### OUTLINE AND DIMENSIONS

**Indoor Unit [WMJ Series]**

**A**

- THE MARK (→) SHOWS PIPING DIRECTION
- LEFT
- REAR
- RIGHT
- TOP VIEW

**B**

- BOTTOM
- LOUVER FRONT GRILLE
- FIXED SCREWS (INSIDE)
- FRONT VIEW

**C**

- SIGNAL RECEIVER
- INDOOR UNIT ON/OFF SWITCH
- ROOM TEMPERATURE THERMISTOR (INSIDE)
- NAME PLATE
- TERMINAL BLOCK WITH EARTH TERMINAL
- SIDE VIEW

**D**

- Recommended mounting plate retention spots
- (5 spots in all)

![Diagram showing recommended mounting plate retention spots.](image)

**E**

- Use tape measure as shown.
- Position the end of a tape measure at ↑

![Diagram showing the use of a tape measure.](image)

**F**

- Through the wall hole Ø 65mm
- Drain hose position

![Diagram showing through the wall hole and drain hose position.](image)

**G**

- Liquid pipe end
- Gas pipe end

![Diagram showing liquid and gas pipe ends.](image)

**Installation Plate**

All dimensions are in mm / (in)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM10/15J</td>
<td>800</td>
<td>288</td>
<td>206</td>
<td>166</td>
<td>184</td>
<td>42</td>
<td>46</td>
<td>55</td>
<td>56</td>
<td>154</td>
<td>182</td>
<td>263</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>(31.5)</td>
<td>(11.3)</td>
<td>(8.1)</td>
<td>(6.5)</td>
<td>(7.2)</td>
<td>(1.7)</td>
<td>(1.8)</td>
<td>(2.1)</td>
<td>(2.2)</td>
<td>(6.1)</td>
<td>(7.2)</td>
<td>(10.4)</td>
<td>(2.0)</td>
</tr>
</tbody>
</table>
### Outdoor Unit [SLC Series]

**All dimensions are in mm / (in)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SL09C</strong></td>
<td>600 (23.6)</td>
<td>475 (18.7)</td>
<td>245 (9.6)</td>
<td>418 (16.4)</td>
<td>177 (6.9)</td>
<td>35 (1.3)</td>
<td>93 (3.6)</td>
<td>81 (3.1)</td>
<td>83 (3.2)</td>
<td>55 (2.2)</td>
<td>398 (15.6)</td>
<td>101 (3.9)</td>
<td>97 (3.8)</td>
<td>17 (0.6)</td>
<td>22 (0.8)</td>
</tr>
<tr>
<td><strong>SL15C</strong></td>
<td>700 (27.5)</td>
<td>521 (20.5)</td>
<td>250 (9.8)</td>
<td>485 (19.1)</td>
<td>175 (6.8)</td>
<td>36 (1.4)</td>
<td>95 (3.7)</td>
<td>93 (3.6)</td>
<td>86 (3.3)</td>
<td>68 (2.6)</td>
<td>441 (17.3)</td>
<td>130 (5.1)</td>
<td>111 (4.3)</td>
<td>15 (0.5)</td>
<td>18 (0.7)</td>
</tr>
</tbody>
</table>
# INSTALLATION MANUAL

This manual provides the procedures of installation to ensure a safe and good standard of operation for the air conditioner unit. Special adjustment may be necessary to suit local requirements. Before using your air conditioner, please read this instruction manual carefully and keep it for future reference.

## SAFETY PRECAUTIONS

### WARNING

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazard due to insulation failure.
- All electrical wiring must not touch the refrigerant piping, or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Disconnect from the main power supply before servicing the air conditioner unit.
- DO NOT pull out the power cord when the power is ON. This may cause serious electrical shocks which may result in fire hazards.
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1m away).

### CAUTION

Please take note of the following important points when installing.

- **Do not install the unit where leakage of flammable gas may occur.**
  - If gas leaks and accumulates around the unit, it may cause fire ignition.
- **Ensure that drainage piping is connected properly.**
  - If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.
- **Do not overcharge the unit.**
  - This unit is factory pre-charged.
  - Overcharge will cause over-current or damage to the compressor.
- **Ensure that the unit’s panel is closed after service or installation.**
  - Unsecured panels will cause the unit to operate noisily.
- **Sharp edges and coil surfaces are potential locations which may cause injury hazards.**
  - Avoid from being in contact with these places.
- **Before turning off the power supply, set the remote controller’s ON/OFF switch to the “OFF” position to prevent the nuisance tripping of the unit.**
  - If this is not done, the unit’s fans will start turning automatically when power resumes, posing a hazard to service personnel or the user.
- **Do not operate any heating apparatus too close to the air conditioner unit.**
  - This may cause the plastic panel to melt or deform as a result of the excessive heat.
- **Ensure the color of wires of the outdoor unit and the terminal markings are same to the indoors respectively.**
- **IMPORTANT : DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM.**
- **Don’t use joined and twisted wires for incoming power supply.**
The outdoor unit must be installed in such a way, so as to prevent short circuit of the hot discharged air or obstruction to the smooth air flow. Please follow the installation clearances shown in the figure. Select the coolest possible place where intake air temperature is not greater than the outside air temperature (maximum 45°C).

**Installation clearances**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Distance, mm (in)</td>
<td>300</td>
<td>300</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>(11.8)</td>
<td>(11.8)</td>
<td>(19.7)</td>
</tr>
</tbody>
</table>

**Note:** If there is any obstacle higher than 2m, or if there is any obstruction at the upper part of the unit, please allow more space than the figure indicated in the above table.
The indoor unit must be installed in such a way so as to prevent short circuit of the cool discharged air with the hot return air. Please follow the installation clearance shown in the figure. Do not place the indoor unit where there could be direct sunlight shining on it. Also, this location must be suitable for piping and drainage, and be away from doors or windows.

The refrigerant piping can be routed to the unit in a number of ways (left or right from the back of the unit), by using the cut-out holes on the casing of the unit (see figure). Bend the pipes carefully to the required position in order to align it with the holes. For the side and bottom out, hold the bottom of the piping and then position it to the required direction (see figure). The condensation drain hose can be taped to the pipes.

### Routing Of Piping

Remove the screw holding the front panel.

### Piping Routing

- **Right-Side, Right-Back or Right-Bottom Piping**
  - Right-back piping
    - Bind coolant pipe and drain hose together with insulating tape.
  - Right-bottom piping
    - Remove pipe port cover here for right-bottom piping
  - Right-side piping
    - Remove pipe port cover here for right-side piping

- **Left-Side, Left-Back or Left-Bottom Piping**
  - Left-bottom piping
    - Remove pipe port cover here for left-bottom piping
  - Left-side piping
    - Remove pipe port cover here for left-side piping
  - Left-back piping
    - Remove pipe port cover here for left-back piping
Mounting Installation Plate
Ensure that the wall is strong enough to withstand the weight of the unit. Otherwise, it is necessary to reinforce the wall with plates, beams or pillars. Use the level gauge for horizontal mounting, and fix it with 5 suitable screws. In case the rear piping draws out, drill a hole 65mm in diameter with a cone drill, slightly lower on the outside wall (see figure).

How To Attach The Indoor Unit
Hook the claws of the bottom frame to the mounting plate.

How To Remove The Indoor Unit
Push up the marked area (at the lower part of the front grille) to release the claws.

Recommended Mounting Plate Retention Spots And Dimensions

Mount The Unit Onto The Installation Plate
Hook the indoor unit onto the upper portion of the installation plate (Engage the two hooks at the rear top of the indoor unit with the upper edge of the installation plate). Ensure that the hooks are properly seated on the installation plate by moving it to the left and right.

Water Drainage Piping
The indoor drain pipe must be in a downward gradient for smooth drainage. Avoid situations that are likely to cause water to leak.

Water Drainage
**REFRIGERANT PIPING**

**Piping Length & Elevation**
If the pipe is too long, both the capacity and reliability of the unit will drop. As the number of bends increases, resistance to the flow of refrigerant system increases, thus lowering cooling capacity. As a result, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below:

![Diagram of Outdoor and Indoor Units](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>Min. allowable length (L)</th>
<th>Max. allowable length (L)</th>
<th>Max. allowable height (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas pipe</td>
<td>3m</td>
<td>15m</td>
<td>10m</td>
</tr>
<tr>
<td>Liquid pipe</td>
<td>O.D. 9.5mm</td>
<td>O.D. 12.7mm</td>
<td>O.D. 6.4mm</td>
</tr>
</tbody>
</table>

*Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.

**Remark:** The refrigerant pre-charged in the outdoor unit is for piping length up to 7.5 m.

**Piping Works**
- Do not use contaminated or damaged copper tubing. Do not remove plastic, rubber plugs and brass nuts from the valves, fittings, tubings and coils until you are ready to connect suction or liquid line into valves or fittings.
- If any brazing work is required, ensure that the nitrogen gas is passed through coil and joints while the brazing work is being done. This will eliminate soot formation on the inside walls of the copper tubings.
- Cut the connection pipe with a pipe cutter.
- Remove burrs from cut edges of the pipes with remover. Hold the end of the pipe downwards to prevent metal chips from entering the pipe.
- Insert the flare nuts, mounted on the connection parts of both the indoor unit and outdoor unit onto the copper pipes.
- Flare the pipe with extra length above the flaring tool as shown in the table.
- The flared edge must be even and not cracked or scratched.

![Diagram of Piping Works](image)

<table>
<thead>
<tr>
<th>Ø Tube, D</th>
<th>A (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch</td>
<td>mm</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>6.35</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>9.52</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>12.70</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>15.88</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>19.05</td>
</tr>
</tbody>
</table>
Piping Connection To The Units
- Align the center of the piping and tighten the flare nut sufficiently with fingers.
- Finally, tighten the flare nut with the torque wrench until the wrench clicks.

<table>
<thead>
<tr>
<th>Pipe Size mm / (in)</th>
<th>Torque Nm / (ft - lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.35 (1/4)</td>
<td>18 (13.3)</td>
</tr>
<tr>
<td>9.53 (3/8)</td>
<td>42 (31.0)</td>
</tr>
<tr>
<td>12.7 (1/2)</td>
<td>55 (40.6)</td>
</tr>
<tr>
<td>15.88 (5/8)</td>
<td>65 (48.0)</td>
</tr>
<tr>
<td>19.05 (3/4)</td>
<td>78 (57.6)</td>
</tr>
</tbody>
</table>

ELECTRICAL WIRING CONNECTION

IMPORTANT: * The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also subject to the type of installation and conductors used.

** The appropriate voltage range should be checked with label data on the unit.

Cooling Unit (single phase)

There must be a double pole switch with a minimum 3mm contact gap and fuse/circuit breaker as recommended in the fixed installation circuit.
VACUUMING AND CHARGING

Purging The Piping And The Indoor Unit

Except for the outdoor unit which is pre-charged with refrigerant, the indoor unit and the refrigerant connection pipes must be air-purged because the air containing moisture that remains in the refrigerant cycle may cause malfunction of the compressor.

- Remove the caps from the valve and the service port.
- Connect the center of the charging gauge to the vacuum pump.
- Connect the charging gauge to the service port of the 3-way valve.
- Start the vacuum pump. Evacuate for approximately 30 minutes. The evacuation time varies with different vacuum pump capacity. Confirm that the charging gauge needle has moved towards -760mmHg.

Caution

- If the gauge needle does not move to -760mmHg, be sure to check for gas leaks (using the refrigerant detector) at flare type connection of the indoor and outdoor unit and repair the leak before proceeding to the next step.

- Close the valve of the charging gauge and stop the vacuum pump.
- On the outdoor unit, open the suction valve (3 way) and liquid valve (2 way) (in anti-clockwise direction) with 4mm key for hexagon sacked screw.
Charge Operation
This operation must be done by using a gas cylinder and a precise weighing machine. The additional charge is topped-up into the outdoor unit using the suction valve via the service port.

- Remove the service port cap.
- Connect the low pressure side of the charging gauge to the suction service port center of the cylinder tank and close the high pressure side of the gauge. Purge the air from the service hose.
- Start the air conditioner unit.
- Open the gas cylinder and low pressure charging valve.
- When the required refrigerant quantity is pumped into the unit, close the low pressure side and the gas cylinder valve.
- Disconnect the service hose from service port. Put back the service port cap.

Additional Charge
The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.5m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.5m, then use the additional charge valve as indicated in the table.

Additional refrigerant charge [g] per additional 1m length as tabulated

<table>
<thead>
<tr>
<th>Indoor</th>
<th>WM10/15J</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor</td>
<td>SL09/15C</td>
</tr>
<tr>
<td>Additional charge [g/m]</td>
<td>16</td>
</tr>
</tbody>
</table>

Example:
WM10J & SL09C with 12m piping length, additional piping length is 4.5m. Thus,
Additional charge  = 4.5[m] x 16[g/m]  = 72.0[g]

INDICATOR LIGHTS

IR Signal Receiver
When an infrared remote control operating signal has been transmitted, the signal receiver on the indoor unit will respond as below to confirm acceptance of the signal transmission.

| ON to OFF | 1 Long Beep |
| OFF to ON | 2 Short Beep |
| Pump down/Cool force on | 2 Short Beep |
| Others | 1 Short Beep |

Cooling Unit
The table shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions.
The LED indicator lights are located at the right-bottom of the air conditioner unit.
### LED Indicator Lights: Normal Operation And Fault Conditions For Cooling Unit

<table>
<thead>
<tr>
<th>COOL</th>
<th>Normal Operation / Fault Indication</th>
<th>Action</th>
<th>Error Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Green Light" /></td>
<td>Cool mode</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="Green Light" /></td>
<td>Auto mode in Cooling operation</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="Off Light" /></td>
<td>Timer on</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="Off Light" /></td>
<td>Sleep mode on</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="Off Light" /></td>
<td>Fan mode on</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="Off Light" /></td>
<td>Dry mode on</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="1 Time" /></td>
<td>Room air sensor contact</td>
<td>Call your dealer</td>
<td>Blink E1</td>
</tr>
<tr>
<td><img src="#" alt="1 Time" /></td>
<td>Loose / Short</td>
<td>Call your dealer</td>
<td>Blink E1</td>
</tr>
<tr>
<td><img src="#" alt="3 Times" /></td>
<td>Outdoor coil sensor open</td>
<td>Call your dealer</td>
<td>Blink E3</td>
</tr>
<tr>
<td><img src="#" alt="2 Times" /></td>
<td>Indoor coil sensor open</td>
<td>Call your dealer</td>
<td>Blink E2</td>
</tr>
<tr>
<td><img src="#" alt="1 Time" /></td>
<td>Compressor overload / Indoor coil sensor short / outdoor coil sensor short</td>
<td>Call your dealer</td>
<td>Blink E4</td>
</tr>
<tr>
<td><img src="#" alt="Red Light" /></td>
<td>Defrost operation</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><img src="#" alt="3 Times" /></td>
<td>Gas leak</td>
<td>Call your dealer</td>
<td>Blink E5</td>
</tr>
<tr>
<td><img src="#" alt="6 Times" /></td>
<td>Hardware error (tact switch pin short)</td>
<td>Call your dealer</td>
<td>Blink E8</td>
</tr>
<tr>
<td><img src="#" alt="4 Times" /></td>
<td>No feedback from indoor fan</td>
<td>Call your dealer</td>
<td>Blink E9</td>
</tr>
<tr>
<td><img src="#" alt="5 Times" /></td>
<td>EEPROM error</td>
<td>Call your dealer</td>
<td>Blink EE</td>
</tr>
</tbody>
</table>

**Note:** The unit will not detect sensor missing when the compressor is ON.

**Blink N times**

- ON 500ms
- OFF 500ms
- 1
- 2
- N
- 3 seconds

**Blink continuously**

- ON 500ms
- OFF 500ms
- 1
- 2
- N
AIR CONDITIONER UNIT OPERATION

Dry Mode
• When the air humidity is high, the unit can operate in dry mode. Press <MODE> button and choose <DRY>.
• If the room temperature is 2°C/3.6°F higher than the set temperature, the air conditioner will operate under cooling mode until it reaches within the 2°C/3.6°F range of difference compared to the set temperature before it converts to dry mode.
• If the room temperature is within the 2°C/3.6°F range of difference compared to the set temperature, it will directly operate under dry mode.
• The unit will operate at LOW speed under dry mode.

Air Flow Control
• For more effective air circulation, you can manually adjust the air discharge grille to the left or right.
• During cool mode operation and dry mode operation, do not direct the air discharge louver downwards for too long. If operating continues in this way, condensation may occur on the louver, thus resulting in drippings.

Frost Prevention
• When the air filter is dirty, the evaporating temperature will decrease and eventually cause frosting.
• If the evaporating temperature reaches -1°C/33.8°F, the unit will trip.

Fan Speed And Rated Cooling Capacity
• The rated cooling capacity is provided at the high fan speed.
• The cooling capacity is lower when the unit is operating at MEDIUM and LOW fan speed.

Notes On Flaps And Louvers Angles
• When “SWING button” is selected, the flaps swinging range depends on the operation mode. (See the figure.)

ATTENTION
• Always use a remote controller to adjust the flaps angle. If you attempt to move it forcibly with hand when it is swinging, the mechanism may be broken.
• Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.

In COOL, DRY and FAN mode

OPERATING RANGE

Cooling Unit

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Ts °C / °F</th>
<th>Th °C / °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum indoor temperature</td>
<td>19.0 / 66.2</td>
<td>14.0 / 57.2</td>
</tr>
<tr>
<td>Maximum indoor temperature</td>
<td>32.0 / 89.6</td>
<td>23.0 / 73.4</td>
</tr>
<tr>
<td>Minimum outdoor temperature</td>
<td>19.4 / 66.9</td>
<td>–</td>
</tr>
<tr>
<td>Maximum outdoor temperature</td>
<td>46.0 / 114.8</td>
<td>–</td>
</tr>
</tbody>
</table>

Ts: Dry bulb temperature. Th: Wet bulb temperature.
1. Open the front panel.
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.

2. Pull out the air filters.
   - Push a little upwards the tab at the center of each air filter, then pull it down.

3. Take off the Bio filter with bacteriostatic, virustatic functions.
   - Hold the recessed parts of the frame and unhook the four claws.

4. Clean or replace each filter.
   - See figure.
   - When shaking off remaining water, do not wring the filter.

5. Set the air filter and Bio filter with bacteriostatic, virustatic functions as they were and close the front panel.
   - Insert claws of the filters into slots of the front panel. Close the front panel slowly and push the panel at the 3 points. (1 on each side and 1 in the middle.)
   - The air filter and Bio filter with bacteriostatic, virustatic functions have a symmetrical form in the horizontal direction.

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**Installation Procedure for Bio filter**

Bio filter packs in a hermetically-sealed bag.  
Take it out at the time of installation.  
Slip the filter in between filter frame and Titanium apatite filter.
⚠️ CAUTION

- **Storage, handling and disposal methods.**
  - The lifetime of this Bio filter is about a year after opening.
  - In case you do not use this Bio filter right away, please don’t place the Bio filter in any place where it will be subjected to direct sunlight, high temperatures and/or high humidity.
  - There can be slight differences between Bio filter color because of the manufacturing reasons, there is no effect on the unit performance.
  - Please open this bag right before you use it. Bio filter should remain unopened and sealed in its packaging until right before usage. (It may cause performance deterioration or quality change.)
  - To avoid danger of suffocation and any unexpected accident, please dispose the plastic bag immediately after you remove the Bio filter. Keep out of reach of babies and children.
  - If you keep this Bio filter for a long time, please keep it unopened and store in a cool place avoiding direct sunlight.
  - Please dispose the old Bio filter as nonflammable garbage after use.

- **Operation with dirty filters:**
  1. cannot deodorize the air.
  2. cannot clean the air.
  3. results in poor cooling.
  4. may cause odour.

- To order Bio filter, contact the service shop where you bought the air conditioner.
### AUTO RANDOM RE-START FUNCTION

If there is a power cut when the unit is operating, it will automatically resume the same operating mode when the power is restored.

### SERVICE AND MAINTENANCE

<table>
<thead>
<tr>
<th>Service Parts</th>
<th>Maintenance Procedures</th>
<th>Period</th>
</tr>
</thead>
</table>
| Indoor air filter  | 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C/104°F) with a neutral cleaning detergent.  
                 2. Rinse the filter well and dry before placing it back onto the unit.  
                 3. Do not use gasoline, volatile substances or chemicals to clean the filter. | At least once every 2 weeks.  
                                           More frequently if necessary. |
| Indoor unit        | 1. Clean any dirt or dust on the grille or panel by wiping it with a soft cloth soaked in lukewarm water (below 40°C/104°F) and a neutral detergent solution.  
                 2. Do not use gasoline, volatile substances or chemicals to clean the indoor unit. | At least once every 2 weeks.  
                                           More frequently if necessary. |

1. **Open the front panel.**
   - Hold the panel at the recesses on the main unit (2 recesses on right and left sides) and lift it until it stops.

2. **Remove the front panel.**
   - While lifting the front panel further, slide it to the right and pull it to the front side. The left rotating shaft is detached. Slide the right rotating shaft to the left and pull it to the front side to remove it.

3. **Attach the front panel.**
   - Align the right and left rotating shafts of the front panel with the grooves and push them all the way in.  
   - Gently close the front panel. (Push both ends and the center on the front panel.)

⚠️ **CAUTION**

- Don’t touch the metal parts of the indoor unit. It may cause an injury.  
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.  
- For cleansing, do not use hot water above 40°C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.  
- After cleaning, make sure that the front panel is securely fixed.
**When The Unit Is Not To Be Used For An Extended Long Period Of Time**

Operate the unit for 2 hours with the following setting.
- **Operating mode:** cool
- **Temperature:** 30°C/86°F

Remove the power plug. If you are using an independent electric circuit for your unit, cut off the circuit. Remove the batteries in the remote control.

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**TROUBLESHOOTING**

If any malfunction of the air conditioner unit is noted, immediately switch off the power supply to the unit. Check the following fault conditions and causes for some simple troubleshooting tips.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Causes / Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The compressor does not operate 3 minutes after the air conditioner unit is started.</td>
<td>- Protection against frequent starting. Wait for 3 to 4 minutes for the compressor to start operating.</td>
</tr>
<tr>
<td>2. The air conditioner unit does not operate.</td>
<td>- Power failure, or the fuse need to be replaced.</td>
</tr>
<tr>
<td></td>
<td>- The power plug is disconnected.</td>
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<tr>
<td></td>
<td>- It is possible that your delay timer has been set incorrectly.</td>
</tr>
<tr>
<td></td>
<td>- If the fault persist after all these verifications, please contact the air conditioner unit installer.</td>
</tr>
<tr>
<td>3. The air flow is too low.</td>
<td>- The air filter is dirty.</td>
</tr>
<tr>
<td></td>
<td>- The doors or windows are open.</td>
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<tr>
<td></td>
<td>- The air suction and discharge are clogged.</td>
</tr>
<tr>
<td></td>
<td>- The regulated temperature is not high enough.</td>
</tr>
<tr>
<td>4. Discharge air flow has bad odour.</td>
<td>- Odours may be caused by cigarettes, smoke particles, perfume etc. which might have adhered onto the coil.</td>
</tr>
<tr>
<td>5. Condensation on the front air grille of the indoor unit.</td>
<td>- This is caused by air humidity after an extended long period of operation.</td>
</tr>
<tr>
<td></td>
<td>- The set temperature is too low, increase the temperature setting and operate the unit at high fan speed.</td>
</tr>
<tr>
<td>6. Water flowing out from the air conditioner unit.</td>
<td>- Switch off unit and call dealer.</td>
</tr>
<tr>
<td>7. Hissing air flow sound from the air conditioner unit during operation.</td>
<td>- Refrigerant fluid flowing into the evaporator coil.</td>
</tr>
</tbody>
</table>

*If the fault persists, please call your local dealer / serviceman.*
• The manufacturer reserves the right to revise any of the specification and design contain herein at any time without prior notification.

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